

Data Acquisition Standard Operating Procedures

Florida STORET / WIN (ID# 5002)

Last Updated: 5/6/2023

Program Summary

WIN, the Watershed Information Network, provides a modernized centralized environmental data management platform (excluding regulatory databases) as a successor to Florida STORET (STOrage and RETrieval). STORET / WIN is the repository for water quality data collected by most organizations in Florida and contains data from many organizations. WIN provides front-end quality assurance, data input, storage, and reporting of surface water (and including sediment and fish tissue) and ground water data. WIN provides a platform for data providers to submit their data and perform data quality checking interactively prior to allowing the data to be migrated into the published WIN environment. WIN is used to store and manage data, and to report data to interested users and the U.S. Environmental Protection Agency (U.S. EPA).

URLs

- Program - <https://floridadep.gov/dear/watershed-services-program/content/winstoret>
- DDI - <https://data.florida-seacar.org/programs/details/5002>

Contacts

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Data Tables

- Data_5002A_Final
- Data_5002A_Load
- Data_5002B_Load

Data Stored Procedures

- usp_combined_wq_wc_nut_insert_5002

Data Acquisition Standard Operating Procedures: ProgramID 5002

Date Created: 04/21/2019

Created By: *Claude Kershaw*

Data File Path:

1. Data: Tables **Data_STORET_Load** and **Data_WIN_Load** in SEACAR database.
2. Spatial Data: Table **SampleLocation_STORET** and **SampleLocation_WIN** in SEACAR database.

DDI URL: <http://dev.seacar.waterinstitute.usf.edu/datadiscovery/programs/details/5002>

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Procedure Overview:

1. Load data from **Data_STORET_Load** into table **Data_5002A_Load** where data is not already incorporated into other STORET/WIN Programs. In other words, where the Monitoring Location do not already exist in the **SampleLocation** table.
2. Load data from **Data_WIN_Load** into table **Data_5002B_Load** where data is not already incorporated into other STORET/WIN Programs. In other words, where the Monitoring Location do not already exist in the **SampleLocation** table.
3. Execute procedure `usp_Data_5002*_Load_insert` to load the data into table **Data_5002*_Final**.
4. Add the Monitoring Locations from tables **SampleLocation_STORET** and **SampleLocation_WIN** to the **SampleLocation_Point** table if they do not exist there already. For STORET, use 'STORET_'+Org_ID+StationID as the Monitoring Location ID. For WIN, use Org_ID+'_'+Monitoring_Location_ID as the Monitoring Location ID.
5. Add new Monitoring Locations into the **SampleLocation** table. This will generate a LocationID for each Monitoring Location.
6. Update the **SampleLocation_Point** table with the LocationID generated in the **SampleLocation** table. Run procedure `usp_SampleLocation_Point_update` to do this.
7. Update the LocationID column in table **Data_5002A_Final** with the LocationID in the **SampleLocation** table. Join on the [STORET_+Org_ID+_+Station_ID] column in **Data_5002A_Final** and the ProgramLocationID column in **SampleLocation**.
8. Update the LocationID column in table **Data_5002B_Final** with the LocationID in the **SampleLocation** table. Join on the [WIN_+OrgID+_+StationID] column in **Data_5002B_Final** and the ProgramLocationID column in **SampleLocation**.

Data Tables

1. Data_5002*_Load
2. Data_5002*_Final

Data Stored Procedures

1. usp_Data_5002*_Load_insert
2. usp_SampleLocation_Point_update

GIS Procedures

1. Complete steps 4 through 8 in the “Procedure Overview” section of this document.

```
SET ANSI_NULLS ON
SET QUOTED_IDENTIFIER ON
```

```
CREATE PROC [dbo].[usp_combined_wq_wc_nut_insert_5002]
@type varchar(20)
```

```
AS
BEGIN
SET NOCOUNT ON;
SET XACT_ABORT ON;
```

```
DECLARE @message varchar(200);
```

```
-- THIS IS JUST FOR STORET/WIN DATA MANUAL LOADS
```

```
-- Constants - PLEASE SET NOW!!
```

```
DECLARE @combinedTable varchar(50) = 'Combined_WQ_WC_NUT'
DECLARE @dataLoadCode varchar(10)
```

```
-- Setup data load
```

```
DECLARE @runBy varchar(50) = SYSTEM_USER;
DECLARE @programID varchar(10);
DECLARE @dataStreamID varchar(10);
```

```
IF(@type = 'STORET')
```

```
BEGIN
SET @dataLoadCode = '5002A'
```

```
SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;
```

```
ÿ
```

```
-- Delete existing data
EXEC usp_delete_combined @dataStreamID, 'Combined_WQ_WC_NUT'
```

```
-- Insert into
```

```
INSERT INTO Combined_WQ_WC_NUT (ProgramID, DataStreamID, ParameterID, LocationID, ActivityID,
ActivityType, SampleDate, ActivityDepth_m, RelativeDepth, TotalDepth_m, ResultValue, DateAdded,
ValueQualifierID, SampleFraction)
```

```
SELECT DISTINCT
@programID, @dataStreamID, c.ParameterID, a.LocationID, a.ACTIVITY_ID, a.ACTIVITY_TYPE,
CAST(a.ACTIVITY_START_DATE as datetime), dbo.udf_convert_units(a.DEPTH_UNIT, 'm',
a.ACTIVITY_DEPTH), a.REL_DEPTH, dbo.udf_convert_units(d.RESULT_UNIT, 'm',
d.RESULT_VALUE), dbo.udf_convert_parameters(b.ParameterConversion,
dbo.udf_convert_units(b.OriginalUnits, c.Units, a.RESULT_VALUE)) as
ResultValue, GETDATE(), z.ValueQualifierID, SAMPLE_FRACTION
```

```
FROM Data_5002A_Final a
```

```
INNER JOIN Combined_Conversion_Parameters b ON a.CHARACTERISTIC = b.OriginalParameter and
a.RESULT_UNIT = b.OriginalUnits and b.DatastreamID = @dataStreamID
```

```
INNER JOIN Combined_Parameters c ON b.TargetParameterID = c.ParameterID
```

```
LEFT JOIN Combined_ValueQualifier z ON dbo.udf_trim(a.VALUE_QUALIFIER) = z.ValueQualifier AND
'STORET_WIN' = z.QualifierSource
```

```
LEFT JOIN(
SELECT RESULT_VALUE, RESULT_UNIT, ACTIVITY_ID
FROM Data_5002A_Final
```

```
WHERE CHARACTERISTIC = 'Depth, bottom'
AND ACTIVITY_CATEGORY IN ('Routine Msr/Obs', 'Routine Sample')
AND ISNUMERIC(RESULT_VALUE+'e0') = 1
) d ON a.ACTIVITY_ID = d.ACTIVITY_ID
WHERE (ISNUMERIC(a.RESULT_VALUE+'e0') = 1)
AND a.ACTIVITY_START_DATE not like '0%'
AND ACTIVITY_CATEGORY IN ('Routine Msr/Obs', 'Routine Sample')
```

UNION ALL

```
-- INSERT MDL when result is '*Non-detect'
SELECT DISTINCT
@programID, @dataStreamID, c. ParameterID, a. LocationID, a. ACTIVITY_ID, a. ACTIVITY_TYPE,
CAST(a. ACTIVITY_START_DATE as datetime), dbo. udf_convert_units(a. DEPTH_UNIT, 'm',
a. ACTIVITY_DEPTH), a. REL_DEPTH, dbo. udf_convert_units(d. RESULT_UNIT, 'm', d. RESULT_VALUE), CASE WHEN
a. RESULT_VALUE = '*Non-detect' AND ISNUMERIC(a. MDL+'e0') = 1 THEN
dbo. udf_convert_units(b. OriginalUnits, c. Units, a. MDL) WHEN a. RESULT_VALUE = 'ON BOTTOM' THEN
[dbo]. [udf_convert_units](d. result_UNIT, 'm', d. RESULT_VALUE) END as
ResultValue, GETDATE(), z. ValueQualifierID, SAMPLE_FRACTION
FROM Data_5002A_Final a
INNER JOIN Combined_Conversion_Parameters b ON a. CHARACTERISTIC = b. OriginalParameter and
a. DETECTION_UNIT = b. OriginalUnits and b. DatastreamID = @dataStreamID
INNER JOIN Combined_Parameters c ON b. TargetParameterID = c. ParameterID
LEFT JOIN Combined_ValueQualifier z ON dbo. udf_trim(a. VALUE_QUALIFIER) = z. ValueQualifier AND
'STORET_WIN' = z. QualifierSource
LEFT JOIN(
SELECT RESULT_VALUE, RESULT_UNIT, ACTIVITY_ID
FROM Data_5002A_Final
WHERE CHARACTERISTIC = 'Depth, bottom'
AND ACTIVITY_CATEGORY IN ('Routine Msr/Obs', 'Routine Sample')
AND ISNUMERIC(RESULT_VALUE+'e0') = 1
) d ON a. ACTIVITY_ID = d. ACTIVITY_ID
WHERE a. RESULT_VALUE IN ('*Non-detect', 'ON BOTTOM')
AND a. ACTIVITY_START_DATE not like '0%'
AND ACTIVITY_CATEGORY IN ('Routine Msr/Obs', 'Routine Sample')
AND ISNUMERIC(CASE WHEN a. RESULT_VALUE = '*Non-detect' AND ISNUMERIC(a. MDL+'e0') = 1 THEN
dbo. udf_convert_units(b. OriginalUnits, c. Units, a. MDL) WHEN a. RESULT_VALUE = 'ON BOTTOM' THEN
[dbo]. [udf_convert_units](d. result_UNIT, 'm', d. RESULT_VALUE) END) = 1

END

IF(@type = 'WIN')
BEGIN

SET @message = 'Processing "WIN"'
RAISERROR (@message, 0, 1) WITH NOWAIT

-- Delete existing data
exec usp_delete_combined 1259, 'Combined_WQ_WC_NUT'

SET @message = 'Deleted Combined_WQ_WC_NUT for DataStreamID 1259(' + CAST(GETDATE() as varchar) +
RAISERROR (@message, 0, 1) WITH NOWAIT

-- DELETE non-surface water samples
delete a
from Data_WIN_Final a
where a. Matrix not in ('AQUEOUS-Other', 'AQUEOUS-Surface Water', 'QCMatrix-Water')
delete a
from Data_WIN_Final a
INNER JOIN SampleLocation_WIN b on a. [Organization ID] = b. [Organization ID] and a. [Monitoring
Location ID] = b. [Monitoring Location ID]
where b. [Primary Type] = 'Ground Water'
delete a
from Data_WIN_Final a
where a. [Organization ID] = 'TEST'

SET @message = 'Deleted non-surface water samples(' + CAST(GETDATE() as varchar) + ')'
RAISERROR (@message, 0, 1) WITH NOWAIT

-- DELETE where missing Monitoring Location ID
delete a
```

```

From Data_WIN_Final a
where NULLIF(a. [Monitoring Location ID], '') IS NULL

SET @message = 'Deleted records with NULL [Monitoring Location ID](' + CAST(GETDATE() as varchar)
')'
RAISERROR (@message, 0, 1) WITH NOWAIT

-- Assign ProgramIDs for WIN data
UPDATE a
SET a.ProgramID = NULL
FROM Data_WIN_Final a

UPDATE a
SET a.ProgramID = b.ProgramID
FROM Data_WIN_Final a
INNER JOIN Data_WIN_ProgramID_Matching b ON a. [Organization ID] = b.Orgid
AND(a. [Project ID] = b.ProjectID OR b.ProjectID IS NULL)
AND (COALESCE(a. [Sampling Agency Name], '') = COALESCE(b. SamplingAgency, '') OR
b. SamplingAgency IS NULL)
AND (COALESCE(a. [Monitoring Location ID], '') = COALESCE(b. MonitoringLocationID, '') OR
b. MonitoringLocationID IS NULL)
AND (CASE WHEN b.MatrixEquals = 0 THEN COALESCE(a. Matrix, '') END <> COALESCE(b. Matrix, ''))
OR b.Matrix IS NULL)

-- SET ProgramID
UPDATE a
SET a.ProgramID = 5002
FROM Data_WIN_Final a
WHERE a.ProgramID IS NULL

SET @message = 'Assigned ProgramIDs for WIN data(' + CAST(GETDATE() as varchar) + ' )'
RAISERROR (@message, 0, 1) WITH NOWAIT

-- UPDATE SampleLocation and SampleLocation_Point with "Real" ProgramIDs
;with updateCTE as
(
SELECT DISTINCT a.ProgramID, a.LocationID
FROM Data_WIN_Final a
)
UPDATE a
SET a.ProgramID = b.ProgramID
FROM SampleLocation a
INNER JOIN updateCTE b on a.LocationID = b.LocationID
WHERE a.ProgramID <> b.ProgramID

UPDATE a
SET a.ProgramID = b.ProgramID
FROM SampleLocation_Point a
INNER JOIN SampleLocation b on a.LocationID = b.LocationID
WHERE a.ProgramID <> b.ProgramID

SET @message = 'UPDATED SampleLocation and SampleLocation_Point with "Real" ProgramIDs(' +
CAST(GETDATE() as varchar) + ' )'
RAISERROR (@message, 0, 1) WITH NOWAIT

SET @dataLoadCode = '5002B'

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;

-- Insert into
INSERT INTO Combined_WQ_WC_NUT(ProgramID, DataStreamID, ParameterID, LocationID,
Acti vityID, Acti vityType, SampleDate, Acti vityDepth_m, Relati veDepth, Total Depth_m, Resul tVal ue, ML

```

```
PQL, DetectionUnit, ValueQualifierID, SampleFraction, ResultComments, DateAdded)
SELECT DISTINCT a.ProgramID, @dataStreamID, c.ParameterID, a.LocationID, a.[Activity
ID], a.[Activity Type], CAST(a.[Activity Start Date Time] as datetime), dbo.udf_convert_units(a.[Acti
Depth Unit], 'm', a.[Activity Depth]), a.[Relative Depth], dbo.udf_convert_units(a.[Total Depth Unit
'm', a.[Total Depth]), CAST(dbo.udf_convert_units(b.OriginalUnits, c.Units, a.[DEP Result Value Num
as numeric(25,8)), a.[DEP MDL], a.[DEP PQL], a.[Org Detection Unit], d.ValueQualifierID, a.[Sample
Fraction], NULL, GETDATE())
FROM Data_WIN_Final a
INNER JOIN Combined_Conversion_Parameters b ON a.[DEP Analyte Name] = b.OriginalParameter and a.[DEP
Result Unit] = b.OriginalUnits and b.DatastreamID = @dataStreamID
INNER JOIN Combined_Parameters c ON b.TargetParameterID = c.ParameterID
LEFT JOIN Combined_ValueQualifier d ON dbo.udf_trim(a.[Value Qualifier]) = d.ValueQualifier AND
'STORET_WIN' = d.QualifierSource
WHERE ISNUMERIC(a.[DEP Result Value Number]+'e0') = 1
AND a.LocationID IS NOT NULL
```

```
SET @message = 'Combined Data into Combined_WQ_WC_NUT(' + CAST(GETDATE() as varchar) + ')'
RAISERROR (@message, 0, 1) WITH NOWAIT
```

```
--QAQC after combining count
exec dbo.usp_data_update_qaqc_insert 'WIN', 'Combined_WQ_WC_NUT', '[Result Loaded Date]', 'After'
```

```
SET @message = 'Executed proc: usp_data_update_qaqc_insert(' + CAST(GETDATE() as varchar) + ')'
RAISERROR (@message, 0, 1) WITH NOWAIT
```

END

```
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/*
#####
----- OLD PROGRAMID MATCHING FOR WIN -----
#####
```

-- DEPRECATED: Replaced with a Table called Data_WIN_ProgramID_Matching

```
UPDATE a
SET a.ProgramID = NULL
FROM Data_WIN_Final a
-- Org-Level Matches
UPDATE a
SET a.ProgramID = 537
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLCBA'
UPDATE a
SET a.ProgramID = 476
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLCHAR'
UPDATE a
SET a.ProgramID = 5033
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLCRCP'
UPDATE a
SET a.ProgramID = 514
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLKWAT'
UPDATE a
SET a.ProgramID = 10000
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLLOX'
UPDATE a
SET a.ProgramID = 303
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLSCCF'
UPDATE a
SET a.ProgramID = 477
FROM Data_WIN_Final a
```

```

WHERE a.[Organization ID] = '21FLSUW'
AND a.Matrix <> 'AQUEOUS-Groundwater'
UPDATE a
SET a.ProgramID = 479
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLSWFD'
AND a.Matrix <> 'AQUEOUS-Groundwater'
UPDATE a
SET a.ProgramID = 513
FROM Data_WIN_Final a
WHERE a.[Organization ID] = 'CHNEPMP'
-- Org-Level and Project-Level Matching
UPDATE a
SET a.ProgramID = 513
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLEECO'
AND a.[Project ID] = 'CHNEP'
UPDATE a
SET a.ProgramID = 4063
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLEECO'
AND a.[Project ID] = 'EB TRIBBS'
UPDATE a
SET a.ProgramID = 540
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLWQA'
AND a.[Project ID] = 'SEAS'
-- Special Cases
UPDATE a
SET a.ProgramID = 5016
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLWQA'
AND a.[Monitoring Location ID] IN
('GTMPINUT', 'GTSSNUT', 'GTMFMNUT', 'GTMPCNUT', 'NEAPECNUT', 'NEAPSMNUT', 'NEAPNRNUT', 'NEAPPHNUT')
AND a.[Sampling Agency Name] = 'FDEP FLORIDA COASTAL OFFICE AQUATIC PRESERVES'
UPDATE a
SET a.ProgramID = 4054
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLGTM'
AND a.[Project ID] = 'GTM-NERR'
UPDATE a
SET a.ProgramID = 4054
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLWQA'
AND a.[Project ID] = 'APNUTR'
AND a.[Sampling Agency Name] = 'GUANA TOLOMATO MATANZAS NATIONAL ESTUARINE RESEARCH RESERVE'
AND a.[Monitoring Location ID] IN ('GTMPINUT', 'GTSSNUT', 'GTMFMNUT', 'GTMPCNUT')
UPDATE a
SET a.ProgramID = 5014
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLGTM'
AND a.[Project ID] = 'GUANAWQ'
UPDATE a
SET a.ProgramID = 5014
FROM Data_WIN_Final a
WHERE a.[Organization ID] IN ('21FLA', '21FLWQA')
AND a.[Monitoring Location ID] IN ('G5NE0019', 'G5NE0020', 'G5NE0021', 'G5NE0022', 'G5NE0023',
'G5NE0024', 'G5NE0025')
UPDATE a
SET a.ProgramID = 5008
FROM Data_WIN_Final a
WHERE a.[Organization ID] = '21FLUFSW'

```


#####

SET @dataLoadCode = '5002B'

SELECT @dataStreamID = DataStreamID,
@programID = ProgramID
FROM DataStreamProcedure
WHERE DataLoadCode = @dataLoadCode;

INSERT INTO
Combi ned_WQ_WC_NUT([Locati onID], [Organi zati on_ID], [Moni tori ng_Locati on_ID], [Proj ect_ID], [Acti vi ty_
cti vi ty_Type], [Acti vi ty_Start_Date_Time], [Acti vi ty_End_Date_Time], [Acti vi ty_Time_Zone], [Medi a], [MA
[Sampl e_Col l ecti on_Type], [Sampl i ng_Agenci y_Name], [Sampl eCol l ecti onEqui pmentName], [Acti vi ty_Depth],
ty_Depth_Uni t], [Rel ati ve_Depth], [Acti vi ty_Top_Depth], [Acti vi ty_Bottom_Depth], [Acti vi ty_Depth_Top_B
Uni t], [Total_Depth], [Total_Depth_Uni t], [Acti vi ty_Representati ve_Ind], [Acti vi ty_Comments], [Sampl er_
[Fi el d_Bl ank_Batch_ID], [Equi pment_Bl ank_Batch_ID], [Tri p_Bl ank_Batch_ID], [Master_Acti vi ty_ID], [Acti
oaded_Date], [Acti vi ty_Updated_Date], [DEP_Resul t_ID], [Org_Resul t_ID], [DEP_Analy te_Group], [DEP_Analy
e], [ADaPT_Analy te_ID], [Org_Analy te_Name], [Org_Resul t_Uni t], [Org_MDL], [Org_PQL], [Org_Detecti on_Uni t
_Resul t_Val ue_Number], [DEP_Resul t_Val ue_Text], [DEP_Resul t_Uni t], [DEP_MDL], [DEP_PQL], [Val ue_Quali fi
ampl e_Fracti on], [Prep_Method], [Preparati on_Date_Time], [Preparati on_Time_Zone], [Anal ysi s_Method], [A
s_Date_Time], [Anal ysi s_Time_Zone], [Lab_ID], [Lab_Name], [Lab_Accredi tati on_Authori ty], [Resul t_Commer
ab_Sampl e_ID], [Method_Batch_ID], [Di luti on], [Percent_Moi sture], [Percent_Recovery], [Rel ati ve_Percent
rence], [Error], [Target_Speci es], [Fi nfi sh_Si ze], [Fi nfi sh_Uni t], [Resul t_Val ue_Type], [Stati sti cal_Bas
di t_Censored_Deci si ons], [Resul t_Loaded_Date], [Resul t_Updated_Date], [Ori gi nal_Lati tude], [Ori gi nal Lon
], [Ori gi nal Stati on], [QAQCFl ag], DateAdded, ProgramID, DataStreamID, ParameterID, Org_Resul t_Val ue,
Qual i fi erSource)

SELECT Locati onID, NULL, NULL, NULL, NULL, a. [Acti vi ty Type], a. [Acti vi ty Start Date
Time], NULL, NULL, NULL, NULL, NULL, NULL, NULL, a. [Acti vi ty Depth], a. [Acti vi ty Depth Uni t], a. [Rel ati ve
Depth], a. [Acti vi ty Top Depth], a. [Acti vi ty Bottom Depth], a. [Acti vi ty Depth Top Bottom Uni t], a. [Total
Depth], a. [Total Depth
Uni t], NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NU
L, NULL, NULL, NULL, NULL, LTRI M(RTRI M(a. [Val ue
Qual i fi er])), NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL,
ULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, a. [Moni tori ng_Locati on
ID], NULL, GETDATE(), a. ProgramID, @dataStreamID, c. ParameterID, CAST(dbo.udf_convert_uni ts(b. Ori gi nal U
c. Uni ts, a. [DEP_Resul t_Val ue_Number]) as numeric(25, 8)), 'STORET_WIN'

FROM Data_WIN_Final a
INNER JOIN Combi ned_Conversi on_Parameters b ON a. [DEP_Analy te Name] = b. Ori gi nal Parameter and a. [DEP
Resul t_Uni t] = b. Ori gi nal Uni ts and b. DatastreamID = @dataStreamID
INNER JOIN Combi ned_Parameters c ON b. TargetParameterID = c. ParameterID
WHERE a. [DEP_Resul t_Val ue_Number] <> ''
AND a. Locati onID IS NOT NULL
--ANDEXTS (SELECT *
-- FROM SpatJoin_Poi nt z -- change thi s table!!!! Claude!!!
--WHERE z.MA_AreaID <> '9999'
--AND z.MA_AreaID IS noT NULL
--AND a. ProgramID = z. ProgramID
--AND a. Locati onID = z. Locati onID)

DELETE Combi ned_Data_Tracki ng
WHERE Combi nedTabl eName = @combi nedTabl e
AND DataStreamID = @dataStreamID

INSERT INTO Combi ned_Data_Tracki ng (ProgramID, Indi catorID, DataStreamID, ParameterID,
Combi nedTabl eName, NumRowsFi nal, NumRowsCombi ned, LastUpdateDate, LastUpdateBy)
SELECT a. ProgramID, b. Indi catorID, a. DataStreamID, a. ParameterID, @Combi nedTabl e,
COUNT(a. Org_Resul t_Val ue), COUNT(a. Org_Resul t_Val ue), GETDATE(), @runBy
FROM Combi ned_WQ_WC_NUT a
INNER JOIN Combi ned_Parameters b on a. ParameterID = b. ParameterID
WHERE a. ProgramID = @ProgramID
AND a. DataStreamID = @dataStreamID
GROUP BY a. ProgramID, b. Indi catorID, a. DataStreamID, a. ParameterID

#####

```
----- To mark duplicate stations toDelete = 1, run this: -----
#####

;with winLocations
as
(
SELECT *
FROM SampleLocation a
WHERE EXISTS (SELECT *
              FROM SampleLocation_WIN b
              WHERE 'WIN_' + b.[Organization ID] + '_' + b.[Monitoring Location ID] = a.ProgramLocationID)
)
UPDATE a
SET a.toDelete = 1
FROM SampleLocation a
INNER JOIN winLocations b on a.ProgramLocationID = b.ProgramLocationID
WHERE a.ProgramID = 5002
AND a.ProgramID <> b.ProgramID
ÿ
#####
----- OLD QUERY FOR STORET -----
#####

INSERT INTO
Combi ned_WQ_WC_NUT([Locati onID], [Organi zati on_ID], [Moni tori ng_Locati on_ID], [Proj ect_ID], [Acti vi ty_
cti vi ty_Type], [Acti vi ty_Start_Date_Ti me], [Acti vi ty_End_Date_Ti me], [Acti vi ty_Ti me_Zone], [Medi a], [Ma
[Sampl e_Col l ecti on_Type], [Sampl i ng_Agenc y_Na me], [Sampl eCol l ecti onEqui pmentName], [Acti vi ty_Depth],
ty_Depth_Uni t], [Rel ati ve_Depth], [Acti vi ty_Top_Depth], [Acti vi ty_Bottom_Depth], [Acti vi ty_Depth_Top_F
Un i t], [Total_Depth], [Total_Depth_Uni t], [Acti vi ty_Representati ve_Ind], [Acti vi ty_Comments], [Sampl er_
[Fi el d_Bl ank_Batch_ID], [Equi pment_Bl ank_Batch_ID], [Tri p_Bl ank_Batch_ID], [Master_Acti vi ty_ID], [Acti
oaded_Date], [Acti vi ty_Updated_Date], [DEP_Resul t_ID], [Org_Resul t_ID], [DEP_Anal yte_Group], [DEP_Anal y
e], [ADaPT_Anal yte_ID], [Org_Anal yte_Na me], [Org_Resul t_Uni t], [Org_MDL], [Org_PQL], [Org_Detecti on_Uni t
_Resul t_Val ue_Nu mber], [DEP_Resul t_Val ue_Te xt], [DEP_Resul t_Uni t], [DEP_MDL], [DEP_PQL], [Val ue_Qual i fi
ampl e_Fracti on], [Prep_Method], [Preparati on_Date_Ti me], [Preparati on_Ti me_Zone], [Anal ysi s_Method], [A
s_Date_Ti me], [Anal ysi s_Ti me_Zone], [Lab_ID], [Lab_Na me], [Lab_Accredi tati on_Authori ty], [Resul t_Commer
ab_Sampl e_ID], [Method_Batch_ID], [Di luti on], [Percent_Moi sture], [Percent_Recovery], [Rel ati ve_Percent
rence], [Error], [Target_Speci es], [Fi nfi sh_Si ze], [Fi nfi sh_Uni t], [Resul t_Val ue_Type], [Stati sti cal_Bas
di t_Censored_Deci si ons], [Resul t_Loaded_Date], [Resul t_Updated_Date], [Ori gi nal Lati tude], [Ori gi nal Lon
], [Ori gi nal Stati on], [QAQCFI ag], DateAdded, ProgramID, DataStreamID, ParameterID, Org_Resul t_Val ue, Qual i
urce, SEACAR_QAQCFI agID)
SELECTDISTINCT a. Locati onID, NULL, NULL, NULL, NULL, a. ACTI VI TY_TYPE,
a. ACTI VI TY_START_DATE, NULL, NULL, NULL, NULL, NULL, NULL, NULL, a. ACTI VI TY_DEPTH, a. DEPTH_UNI T, a. REL_DEPTH
NULL, NULL, d. RESULT_VALUE, d. RESULT_UNI T, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL,
NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, LTRI M(RTRI M(a. VALUE_QUALI FI ER)), NULL, NULL, N
LL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL,
ULL, NULL, NULL, NULL, a. STATI ON_ID, NULL, GETDATE(), @programID, @dataStreamID, c. ParameterID
, dbo.udf_convert_parameters(b. ParameterConversi on, dbo.udf_convert_uni ts(b.Ori gi nal Uni ts, c. Uni ts
a.RESULT_VALUE))
, 'STORET_WIN' AS Quali fierSource
, CASE
WHEN b.ParameterConversi on IS NOT NULL THEN 1-- SEACAR Calcul ated
END AS SEACAR_QAQCFI agID
FROMData_5002A_Fi nal a
INNER JOINCombi ned_Conversi on_Parametersb ON a.CHARACTERI STIC = b.Ori gi nalParameter and
a.RESULT_UNI T = b.Ori gi nalUni ts and b.DatastreamID = @dataStreamID
INNER JOINCombi ned_Parametersc ON b.TargetParameterID = c.ParameterID
LEFT JOIN(
SELECTRESULT_VALUE, RESULT_UNI T, ACTI VI TY_ID
FROMData_5002A_Fi nal
WHERECHARACTERI STIC = 'Depth, bottom'
ANDACTI VI TY_CATEGORY IN ('Routi ne Msr/Obs', 'Routi ne Sampl e')
) d ON a.ACTI VI TY_ID = d.ACTI VI TY_ID
WHERE(ISNUMERIC(a.RESULT_VALUE+'e0') = 1 OR a.RESULT_VALUE ='ON BOTTOM')
ANDa.ACTI VI TY_START_DATE not l ike '0%'
ANDACTI VI TY_CATEGORY IN ('Routi ne Msr/Obs', 'Routi ne Sampl e')
```

```

--ANDNOT EXISTS (SELECT *
--                FROM Combined_WQ_WC_NUT x
--INNER JOIN SampleLocation y on x.LocationID = y.LocationID
--WHERE a.STATION_ID = y.ProgramLocationID
--AND a.ACTIVITY_START_DATE = x.Activity_Start_Date_Time
--AND a.ACTIVITY_DEPTH = x.Activity_Depth
--AND a.DEPTH_UNIT = x.Activity_Depth_Unit
--AND a.VALUE_QUALIFIER = x.Value_Qualifier
--AND c.ParameterID = x.ParameterID)
ANEXISTS (SELECT *
          FROM SpatJoin_Point z
WHERE z.MA_AreaID <> '9999'
AND z.ProgramID = 5002
AND z.MA_AreaID IS NOT NULL
AND a.LocationID = z.LocationID)
UNION ALL
-- INSERT MDL when result is '*Non-detect'
SELECTDISTINCT a.LocationID, NULL, NULL, NULL, NULL, a.ACTIVITY_TYPE,
a.ACTIVITY_START_DATE, NULL, NULL, NULL, NULL, NULL, NULL, a.ACTIVITY_DEPTH, a.DEPTH_UNIT, a.REL_DEPTH,
NULL, NULL, d.RESULT_VALUE, d.RESULT_UNIT, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL,
NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, a.VALUE_QUALIFIER, NULL, NULL, NULL, NULL, NULL,
NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL,
NULL, a.STATION_ID, NULL, GETDATE(), @programID, @dataStreamID, c.ParameterID
, dbo.udf_convert_parameters(b.ParameterConversion, dbo.udf_convert_units(b.OriginalUnits, c.Units)
a.MDL))
, 'STORET_WIN' AS QualifierSource
, CASE
WHEN b.ParameterConversion IS NOT NULL THEN 1-- SEACAR Calculated
END AS SEACAR_QAQCFlagID
FROMData_5002A_Final
INNER JOINCombined_Conversion_Parametersb ON a.CHARACTERISTIC = b.OriginalParameter and
a.DETECTION_UNIT = b.OriginalUnits and b.DatastreamID = @dataStreamID
INNER JOINCombined_Parametersc ON b.TargetParameterID = c.ParameterID
LEFT JOIN(
SELECTRESULT_VALUE, RESULT_UNIT, ACTIVITY_ID
FROMData_5002A_Final
WHERECHARACTERISTIC = 'Depth, bottom'
ANDACTIVITY_CATEGORY IN ('Routine Msr/Obs', 'Routine Sample')
) d ON a.ACTIVITY_ID = d.ACTIVITY_ID
WHEREa.RESULT_VALUE = '*Non-detect'
ANDa.ACTIVITY_START_DATE not like '0%'
ANDACTIVITY_CATEGORY IN ('Routine Msr/Obs', 'Routine Sample')
--ANDNOT EXISTS (SELECT *
--                FROM Combined_WQ_WC_NUT x
--INNER JOIN SampleLocation y on x.LocationID = y.LocationID
--WHERE a.STATION_ID = y.ProgramLocationID
--AND a.ACTIVITY_START_DATE = x.Activity_Start_Date_Time
--AND a.ACTIVITY_DEPTH = x.Activity_Depth
--AND a.DEPTH_UNIT = x.Activity_Depth_Unit
--AND a.VALUE_QUALIFIER = x.Value_Qualifier
--AND c.ParameterID = x.ParameterID)
ANEXISTS (SELECT *
          FROM SpatJoin_Point z
WHERE z.MA_AreaID <> '9999'
AND z.ProgramID = 5002
AND z.MA_AreaID IS NOT NULL
AND a.LocationID = z.LocationID)

```

```

#####
----- MISC -----
#####

```

```

SELECT *
FROM DataStreamProcedure
where ProgramID = 5002

```

```
ÿ  
exec usp_delete_combined 1258, 'Combined_WQ_WC_NUT'  
exec usp_delete_combined 1259, 'Combined_WQ_WC_NUT'  
*/
```

END

GO